UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 6,922,642 B2

DATED

: July 26, 2005

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INVENTOR(S) : Darius Martin Sullivan

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6,

Line 57, "
$$\phi_{i2}^*(\omega) = \left[\sum_{j} W_{i,j}(\omega) \hat{W}_{i,j}^*(\omega) \exp[-ik(\omega)\Delta x_j]\right]$$
 " should

read --
$$\phi_{12}^*(\omega) = \left| \sum_{j} \hat{W}_{i,j}(\omega) \hat{W}_{2,j}^*(\omega) \exp[-ik(\omega) \Delta x_j] \right|^{--}.$$

Column 8,

Line 24, "time to at which" should read -- time to at which --.

Line 37, "
$$\Pi_j W_j'(t)$$
" should read -- $\prod_j W_j'(t)$ --.

Line 46, "
$$W_i$$
" should lread -- $W'_i(t)$ --.

Lines 53 and 65, "
$$II_jW_j$$
" should read -- $\prod_j W_j(t_0)$ --.

Column 13,

Lines 24 and 26, " W_1 '(t) and W_2 '(t)" should read -- W_1 '(t) and W_2 '(t) --

Line 48, "
$$G(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \hat{W}_1[f(\omega)]W_2^*[f(\omega)] \phi_{12}[f(\omega)] \exp(i\omega t) d\omega$$
" should

read --
$$G(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \hat{W}_1[f(\omega)] \hat{W}_2^*[f(\omega)] \phi_{12}[f(\omega)] \exp(i\omega t) d\omega$$
 --.

Column 15,

Line 22, "
$$\phi_{12}(\omega) = \sum_{j} \hat{W}_{i,j}(\omega) \hat{W}_{2,j}^*(\omega) \exp[-ik(\omega)\Delta x_j]$$
" should

read --
$$\phi_{12}^*(\omega) = \left| \sum_{j} \hat{W}_{i,j}(\omega) \hat{W}_{2,j}^*(\omega) \exp[-ik(\omega) \Delta x_j] \right|_{--}$$

Column 16,

Line 10, " W_1 '(t)" should read -- W_1 '(t) --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17,

Line 22, "A contract sensitive device according to claim 3, wherein the optimisation maximum value of the product is obtained." should read -- A contact sensitive device according to claim 3, wherein the optimisation includes iterative refinement of estimates of a location of the contact and a time for which the maximum value of the product is obtained. --.

Signed and Sealed this

Fourteenth Day of March, 2006

JON W. DUDAS
Director of the United States Patent and Trademark Office